**PRODUCT NAME:** Nano CBD Softgels  
**PRODUCT STRENGTH:** 10 mg CBD  
**BATCH:** Various lots SG10 Exp 9/25/2023  
**BEST BY DATE:** 09/25/2023  
**BULK LOT:** 21E0002754

*Click on the links to view third-party reports*

### Physical Attributes

<table>
<thead>
<tr>
<th>Test</th>
<th>Method</th>
<th>Specification</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Joy Internal</td>
<td>Golden to Amber</td>
<td>PASS</td>
</tr>
<tr>
<td>Odor</td>
<td>Joy Internal</td>
<td>No odor</td>
<td>PASS</td>
</tr>
<tr>
<td>Appearance</td>
<td>Joy Internal</td>
<td>Dry, ovoid softgel capsules in container with lid and shrink-band</td>
<td>PASS</td>
</tr>
<tr>
<td>Primary Package Eval.</td>
<td>Joy Internal</td>
<td>Container clean and free of filth. Container caps tight and shrink bands intact</td>
<td>PASS</td>
</tr>
<tr>
<td>Secondary Package Eval.</td>
<td>Joy Internal</td>
<td>Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.</td>
<td>PASS</td>
</tr>
</tbody>
</table>

### Review of Third-Party Analysis

<table>
<thead>
<tr>
<th>Panel</th>
<th>Method</th>
<th>Specification</th>
<th>Results*</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Potency - Total CBD</strong></td>
<td>HPLC-UV DAD</td>
<td>*NLT 10 mg / softgel</td>
<td>14.1 mg</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>Potency - D9-THC</strong></td>
<td>HPLC-UV DAD</td>
<td>LOQ: &gt;0.01% (broad spectrum)</td>
<td>Below LOQ</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>Expanded Pesticide Panel</strong></td>
<td>HPLC-QQQ</td>
<td>LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract</td>
<td>Below LOQ</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>Microbial Escherichia coli (STEC)</strong></td>
<td>PCR</td>
<td>Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram</td>
<td>Absent</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>Microbial Salmonella</strong></td>
<td>PCR</td>
<td>Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram</td>
<td>Absent</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>Microbial Yeast and Mold</strong></td>
<td>Culture Plating</td>
<td>Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram</td>
<td>Below LOQ</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>Microbial Total Coliforms</strong></td>
<td>Culture Plating</td>
<td>Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram</td>
<td>Below LOQ</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>Microbial Total Aerobic Count</strong></td>
<td>Culture Plating</td>
<td>Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram</td>
<td>Below LOQ</td>
<td>PASS</td>
</tr>
</tbody>
</table>
| **Heavy Metals Panel**         | ICP-MS          | Arsenic (As): ≤1.5 ppm  
Cadmium (Cd): ≤0.5 ppm  
Lead (Pb): ≤0.5 ppm  
Mercury (Hg): ≤1.5 ppm | Below LOQ                 | PASS      |
| **Mycotoxins**                 | ICP-MS          | Total Aflatoxins <20 ppb†  
Aflotoxin B1 < 5 ppb  
Ochratoxin < 5ppb | Below LOQ                 | PASS      |
| **Residual Solvents**          | GC-HS-MSD       | LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract                | Below LOQ                 | PASS      |

* Quality Certified: Keegan Schlitter  
03/18/22  
Keegan Schlitter  
Quality Assurance Manager  
5042 Technology Parkway, Fort Collins, CO 80528  
Tel: (833) 569-7223 www.joyorganics.com  
Rev. 1.1 - Effective Date: 2/20/2020
Joy Organic 10 mg capsule

Batch ID or Lot Number: 21E0002754  
Test: Potency  
Test ID: T000165884  
Received: 09/27/2021 @ 11:11 AM  
Sampler ID: N/A

Matrix: N/A  
Unit: N/A  
Status: N/A  
Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)  
Started: 9/28/21  
Reported: 9/29/21

CANNABINOID PROFILE

<table>
<thead>
<tr>
<th>Compound</th>
<th>LOD (mg)</th>
<th>LOQ (mg)</th>
<th>Result (mg)</th>
<th>Result (mg/g)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delta 9-Tetrahydrocannabinolic acid (THCA-A)</td>
<td>0.216</td>
<td>0.727</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Delta 9-Tetrahydrocannabinol (Delta 9THC)</td>
<td>0.244</td>
<td>0.820</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cannabidiolic acid (CBDA)</td>
<td>0.306</td>
<td>0.775</td>
<td>14.124</td>
<td>23.11</td>
<td></td>
</tr>
<tr>
<td>Cannabidiol (CBD)</td>
<td>0.298</td>
<td>0.756</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Delta 8-Tetrahydrocannabinol (Delta 8THC)</td>
<td>0.269</td>
<td>0.903</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cannabinolic Acid (CBNA)</td>
<td>0.154</td>
<td>0.517</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cannabinol (CBN)</td>
<td>0.070</td>
<td>0.237</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cannabigerolic acid (CBGA)</td>
<td>0.226</td>
<td>0.758</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cannabigerol (CBG)</td>
<td>0.054</td>
<td>0.181</td>
<td>0.878</td>
<td>1.44</td>
<td></td>
</tr>
<tr>
<td>Tetrahydrocannabivaric Acid (THCVA)</td>
<td>0.191</td>
<td>0.641</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Tetrahydrocannabivarin (THCV)</td>
<td>0.049</td>
<td>0.165</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cannabidivarinic Acid (CBDVA)</td>
<td>0.128</td>
<td>0.323</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cannabidivarin (CBDV)</td>
<td>0.070</td>
<td>0.179</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cannabichromenic Acid (CBCA)</td>
<td>0.087</td>
<td>0.292</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cannabichromene (CBC)</td>
<td>0.095</td>
<td>0.319</td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Total Cannabinoids</td>
<td></td>
<td></td>
<td>15.002</td>
<td>24.55</td>
<td></td>
</tr>
<tr>
<td>Total Potential THC**</td>
<td></td>
<td></td>
<td>ND</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Total Potential CBD**</td>
<td></td>
<td></td>
<td>14.124</td>
<td>23.11</td>
<td></td>
</tr>
</tbody>
</table>

Notes: 
- # of Servings = 1

Sample Weight = 0.611 g

total THC = THC (THCA: 0.877) + THC (THCV: 0.537) + (THCV: 0.537)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.
# Joy Organic 10 mg capsule

**Batch ID or Lot Number:** 21E0002754  
**Test:** Pesticides  
**Test ID:** t000165885  
**Reported:** 9/29/21  
**Started:** 9/28/21  
**Matrix:** Concentrate  
**Time:** 09/27/2021 @ 11:11 AM  
**Method:** TM17(LC-QQQ LC MS/MS):  

<table>
<thead>
<tr>
<th>Compound</th>
<th>LOQ (ppb)</th>
<th>Result (ppb)</th>
<th>Compound</th>
<th>LOQ (ppb)</th>
<th>Result (ppb)</th>
<th>Compound</th>
<th>LOQ (ppb)</th>
<th>Result (ppb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acephate</td>
<td>42</td>
<td>ND</td>
<td>Fenoxycarb</td>
<td>42</td>
<td>ND</td>
<td>Paclobutrazol</td>
<td>42</td>
<td>ND</td>
</tr>
<tr>
<td>Acetamiprid</td>
<td>40</td>
<td>ND</td>
<td>Fipronil</td>
<td>33</td>
<td>ND</td>
<td>Permethrin</td>
<td>287</td>
<td>ND</td>
</tr>
<tr>
<td>Avermectin</td>
<td>51</td>
<td>ND</td>
<td>Flonicamid</td>
<td>51</td>
<td>ND</td>
<td>Phosmet</td>
<td>43</td>
<td>ND</td>
</tr>
<tr>
<td>Azoxystrobin</td>
<td>285</td>
<td>ND</td>
<td>Fludioxonil</td>
<td>47</td>
<td>ND</td>
<td>Propoxur</td>
<td>41</td>
<td>ND</td>
</tr>
<tr>
<td>Bifenazate</td>
<td>54</td>
<td>ND</td>
<td>Hexythiazox</td>
<td>284</td>
<td>ND</td>
<td>Pyridaben</td>
<td>298</td>
<td>ND</td>
</tr>
<tr>
<td>Boscalid</td>
<td>39</td>
<td>ND</td>
<td>Imidacloprid</td>
<td>42</td>
<td>ND</td>
<td>Spinosad A</td>
<td>35</td>
<td>ND</td>
</tr>
<tr>
<td>Carbaryl</td>
<td>41</td>
<td>ND</td>
<td>Kresoxim-methyl</td>
<td>150</td>
<td>ND</td>
<td>Spinosad D</td>
<td>54</td>
<td>ND</td>
</tr>
<tr>
<td>Carbofuran</td>
<td>53</td>
<td>ND</td>
<td>Malathion</td>
<td>299</td>
<td>ND</td>
<td>Spiromesifen</td>
<td>272</td>
<td>ND</td>
</tr>
<tr>
<td>Chlorantraniliprole</td>
<td>500</td>
<td>ND</td>
<td>Metalaxyl</td>
<td>43</td>
<td>ND</td>
<td>Spirotetramat</td>
<td>305</td>
<td>ND</td>
</tr>
<tr>
<td>Chlorpyrifos</td>
<td>285</td>
<td>ND</td>
<td>Methiocarb</td>
<td>42</td>
<td>ND</td>
<td>Siproxamine 1</td>
<td>18</td>
<td>ND</td>
</tr>
<tr>
<td>Clofentezine</td>
<td>290</td>
<td>ND</td>
<td>Methomyl</td>
<td>44</td>
<td>ND</td>
<td>Siproxamine 2</td>
<td>24</td>
<td>ND</td>
</tr>
<tr>
<td>Diazinon</td>
<td>290</td>
<td>ND</td>
<td>MGK 264 1</td>
<td>160</td>
<td>ND</td>
<td>Tebuconazole</td>
<td>290</td>
<td>ND</td>
</tr>
<tr>
<td>Dichlorvos</td>
<td>42</td>
<td>ND</td>
<td>MGK 264 2</td>
<td>136</td>
<td>ND</td>
<td>Thiacloprid</td>
<td>41</td>
<td>ND</td>
</tr>
<tr>
<td>Dimethoate</td>
<td>317</td>
<td>ND</td>
<td>Myclobutanil</td>
<td>40</td>
<td>ND</td>
<td>Thiamethoxan</td>
<td>43</td>
<td>ND</td>
</tr>
<tr>
<td>E-Fenpyroximate</td>
<td>44</td>
<td>ND</td>
<td>Naled</td>
<td>44</td>
<td>ND</td>
<td>Trifloxystrobin</td>
<td>43</td>
<td>ND</td>
</tr>
<tr>
<td>Etofenprox</td>
<td>307</td>
<td>ND</td>
<td>Oxamyl</td>
<td>1500</td>
<td>ND</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Definitions**  
LOQ = Limit of Quantification  
ppb = Parts per Billion

---

**Approved by:**  
Courtney Richards  
9/29/2021 7:12:00 PM

---

**Prepared by / Date:**  
Sam Smith  
9/29/2021 5:13:00 PM

---

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. in the condition it was received. Botanacor Laboratories, LLC. warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.
**Microbial Contaminants Determination**

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Method</th>
<th>LOD</th>
<th>LLOQ</th>
<th>ULOQ</th>
<th>Result</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Aerobic Count*</td>
<td>TM-26, Culture Plating</td>
<td>10^2 CFU/g</td>
<td>10^3 CFU/g</td>
<td>1.5x10^5 CFU/g</td>
<td>None Detected</td>
<td>Free from visual mold, mildew, and foreign matter</td>
</tr>
<tr>
<td>Total Coliforms*</td>
<td>TM-27, Culture Plating</td>
<td>10^1 CFU/g</td>
<td>10^2 CFU/g</td>
<td>1.5x10^4 CFU/g</td>
<td>None Detected</td>
<td></td>
</tr>
<tr>
<td>Total Yeast and Mold*</td>
<td>TM-24, Culture Plating</td>
<td>10^1 CFU/g</td>
<td>10^2 CFU/g</td>
<td>1.5x10^4 CFU/g</td>
<td>None Detected</td>
<td></td>
</tr>
<tr>
<td>STEC</td>
<td>TM-25, PCR</td>
<td>10^0 CFU/25 g</td>
<td>NA</td>
<td>NA</td>
<td>Absent</td>
<td></td>
</tr>
<tr>
<td>Salmonella</td>
<td>TM-25, PCR</td>
<td>10^0 CFU/25 g</td>
<td>NA</td>
<td>NA</td>
<td>Absent</td>
<td></td>
</tr>
</tbody>
</table>

**Definitions**

- **LOD** = Limit of Detection  
- **LLOQ** = Lower Limit of Quantitation  
- **ULOQ** = Upper Limit of Quantitation

- CFU/g = Colony Forming Units per Gram  
- STEC = Shiga Toxin-Producing E. coli

*Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

**Examples:**

- \(10^2 = 100 \text{ CFU}\)
- \(10^3 = 1,000 \text{ CFU}\)
- \(10^4 = 10,000 \text{ CFU}\)
- \(10^5 = 100,000 \text{ CFU}\)

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Joy Organic 10 mg capsule

Batch ID or Lot Number: 21E0002754
Test: Metals
Reported: 9/30/21

Matrix: Unit Co
Test ID: T000165887
Started: 9/29/21

Status: N/A
Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)
Received: 09/27/2021 @ 11:11 AM

HEAVY METALS DETERMINATION

<table>
<thead>
<tr>
<th>Compound</th>
<th>Dynamic Range (ppm)</th>
<th>Result (ppm)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>0.047 - 4.73</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>0.046 - 4.60</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Mercury</td>
<td>0.044 - 4.38</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>0.048 - 4.76</td>
<td>ND</td>
<td></td>
</tr>
</tbody>
</table>

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Prepared by: Ryan Weems
Date: 30-Sep-21 12:59 PM
Approved by: Sam Smith
Date: 30-Sep-21 1:02 PM

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.
Joy Organic 10 mg capsule

Batch ID or Lot Number: 21E0002754  
Test: Mycotoxins  
Reported: 10/1/21

Matrix: Concentrate

Test ID: T000165889

Started: 9/29/21  
USDA License: N/A

Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)

Received: 09/27/2021 @ 11:11 AM  
Sampler ID: N/A

MYCOTOXIN DETERMINATION

<table>
<thead>
<tr>
<th>Compound</th>
<th>Dynamic Range (ppb)</th>
<th>Result (ppb)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ochratoxin A</td>
<td>1.9 - 136</td>
<td>ND</td>
<td>N/A</td>
</tr>
<tr>
<td>Aflatoxin B1</td>
<td>1.1 - 34.8</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Aflatoxin B2</td>
<td>1.1 - 34.4</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Aflatoxin G1</td>
<td>0.9 - 34.4</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Aflatoxin G2</td>
<td>1.2 - 33.2</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Total Aflatoxins (B1, B2, G1, and G2)</td>
<td>0.9 - 34.4</td>
<td>ND</td>
<td></td>
</tr>
</tbody>
</table>

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.
# Joy Organic 10 mg capsule

<table>
<thead>
<tr>
<th>Test ID or Lot Number: 21E0002754</th>
<th>Test: Residual Solvents</th>
<th>Reported: 9/29/21</th>
</tr>
</thead>
</table>

**Matrix:**
- N/A

**Test ID:**
- T000165888

**Started:**
- 9/29/21

**USDA License:**
- N/A

**Sampler ID:**
- N/A

## RESIDUAL SOLVENTS DETERMINATION

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Dynamic Range (ppm)</th>
<th>Result (ppm)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>103 - 2061</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Butanes (Isobutane, n-Butane)</td>
<td>207 - 4146</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>75 - 1498</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Pentane</td>
<td>109 - 2174</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>116 - 2321</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>118 - 2359</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>128 - 2563</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Hexane</td>
<td>7 - 145</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>120 - 2401</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td>0 - 5</td>
<td>*ND</td>
<td></td>
</tr>
<tr>
<td>Heptanes</td>
<td>114 - 2280</td>
<td>*ND</td>
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<tr>
<td>Toluene</td>
<td>22 - 433</td>
<td>*ND</td>
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<tr>
<td>Xylenes (m,p,o-Xylenes)</td>
<td>157 - 3138</td>
<td>*ND</td>
<td></td>
</tr>
</tbody>
</table>

**Prepared By / Date:**
- Daniel Weidensaul
  - 29-Sep-21
  - 7:33 PM

**Approved By / Date:**
- Ryan Weems
  - 29-Sep-21
  - 7:35 PM

**Definitions**

*ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.